

[FIG.1]

100 CLIENT  
 104 SIP SESSION  
 101 RELAY SERVER  
 5 104 SIP SESSION  
 103 APPLICATION SERVER  
 102 NETWORK  
 105 APPLICATION SESSION

10 [FIG.2]

100 CLIENT  
 106 CLIENT REQUEST TRANSMISSION SECTION  
 115 CLIENT RESPONSE RECEIPTON SECTION  
 116 CLIENT CONFIRMATION TRANSMISSION SECTION  
 15 119 CLIENT SERVICE SECTION  
 101 RELAY SERVER  
 107 RELAY SERVER REQUEST RECEPTION SECTION  
 108 AUTHENTICATION SECTION  
 109 APPLICATION SERVER SEARCH SECTION  
 20 110 RELAY SERVER RELAY SECTION  
 114 RELAY SERVER RESPONSE RELAY SECTION  
 117 RELAY SERVER CONFIRMATION RELAY SECTION  
 103 APPLICATION SERVER  
 111 APPLICATION SERVER REQUEST RECEPTION SECTION  
 25 112 RECEPTION DECISION SECTION  
 113 APPLICATION SERVER RESPONSE TRANSMISSION SECTION  
 118 APPLICATION SERVER CONFIRMATION RECEPTION SECTION  
 120 APPLICATION SERVER SERVICE SECTION

[FIG.3]

100 CLIENT  
 101 RELAY SERVER  
 5 103 APPLICATION SERVER  
 SERVICE OF APPLICATION SERVER

[FIG.4]

100 CLIENT  
 10 119 CLIENT SERVICE SECTION  
 121 CLIENT DISCONNECTION REQUEST TRANSMISSION SECTION  
 126 CLIENT DISCONNECTION RESPONSE RECEPTION SECTION  
 101 RELAY SERVER  
 122 RELAY SERVER DISCONNECTION REQUEST RELAY SECTION  
 15 125 RELAY SERVER DISCONNECTION RESPONSE RELAY SECTION  
 127 SESSION CONTROL SECTION  
 128 TIME BILLING SECTION  
 103 APPLICATION SERVER  
 120 APPLICATION SERVER SERVICE SECTION  
 20 123 APPLICATION SERVER DISCONNECTION REQUEST RECEPTION  
 SECTION  
 124 APPLICATION SERVER DISCONNECTION RESPONSE  
 TRANSMISSION SECTION

25 [FIG.5]

100 CLIENT  
 119 CLIENT SERVICE SECTION  
 101 RELAY SERVER

131 APPLICATION BILLING SECTION  
 103 APPLICATION SERVER  
 120 APPLICATION SERVER SERVICE SECTION  
 129 APPLICATION SERVER BILLING SECTION  
 5 130 BILLING INFORMATION NOTIFICATION SECTION

[FIG.6]

100 CLIENT  
 119 CLIENT SERVICE SECTION  
 10 121 CLIENT DISCONNECTION REQUEST TRANSMISSION SECTION  
 126 CLIENT DISCONNECTION RESPONSE RECEPTION SECTION  
 101 RELAY SERVER  
 122 RELAY SERVER DISCONNECTION REQUEST RELAY SECTION  
 125 RELAY SERVER DISCONNECTION RESPONSE RELAY SECTION  
 15 131 APPLICATION BILLING SECTION  
 103 APPLICATION SERVER  
 120 APPLICATION SERVER SERVICE SECTION  
 123 APPLICATION SERVER DISCONNECTION REQUEST RECEPTION  
 SECTION  
 20 124 APPLICATION SERVER DISCONNECTION RESPONSE  
 TRANSMISSION SECTION  
 129 APPLICATION SERVER BILLING SECTION  
 130 BILLING INFORMATION NOTIFICATION SECTION

25 [FIG.7]

100 CLIENT  
 200 CLIENT APPLICATION SECTION  
 201 SIP CLIENT SECTION

## EXCHANGE OF APPLICATION DATA

- 101 RELAY SERVER
- 202 USER AUTHENTICATION SECTION
- 203 APPLICATION SERVER SEARCH SECTION
- 5 204 SESSION CONTROL SECTION
- 205 BILLING CONTROL SECTION
- SIP REQUEST MESSAGE
- SIP RESPONSE MESSAGE
- 206 SIP SERVER SECTION
- 10 SIP REQUEST MESSAGE
- SIP RESPONSE MESSAGE
- 103 APPLICATION SERVER
- 207 SERVER APPLICATION SECTION
- 208 APPLICATION SERVER SIP CLIENT SECTION

15

[FIG.8]

- 100 CLIENT
- 101 RELAY SERVER
- 103 APPLICATION SERVER
- 20 SERVICE OF APPLICATION SERVER
- SERVICE OF CHANGED APPLICATION SERVER

[FIG.9]

- 101 RELAY SERVER
- 25 100 CLIENT
- SERVICE OF APPLICATION SERVER
- 103 APPLICATION SERVER
- SERVICE OF APPLICATION SERVER

300 SECOND APPLICATION SERVER

[FIG.10]

100 CLIENT

5 101 RELAY SERVER

103 APPLICATION SERVER

300 APPLICATION SERVER

SERVICE OF FIRST APPLICATION SERVER

SERVICE OF SECOND APPLICATION SERVER

10

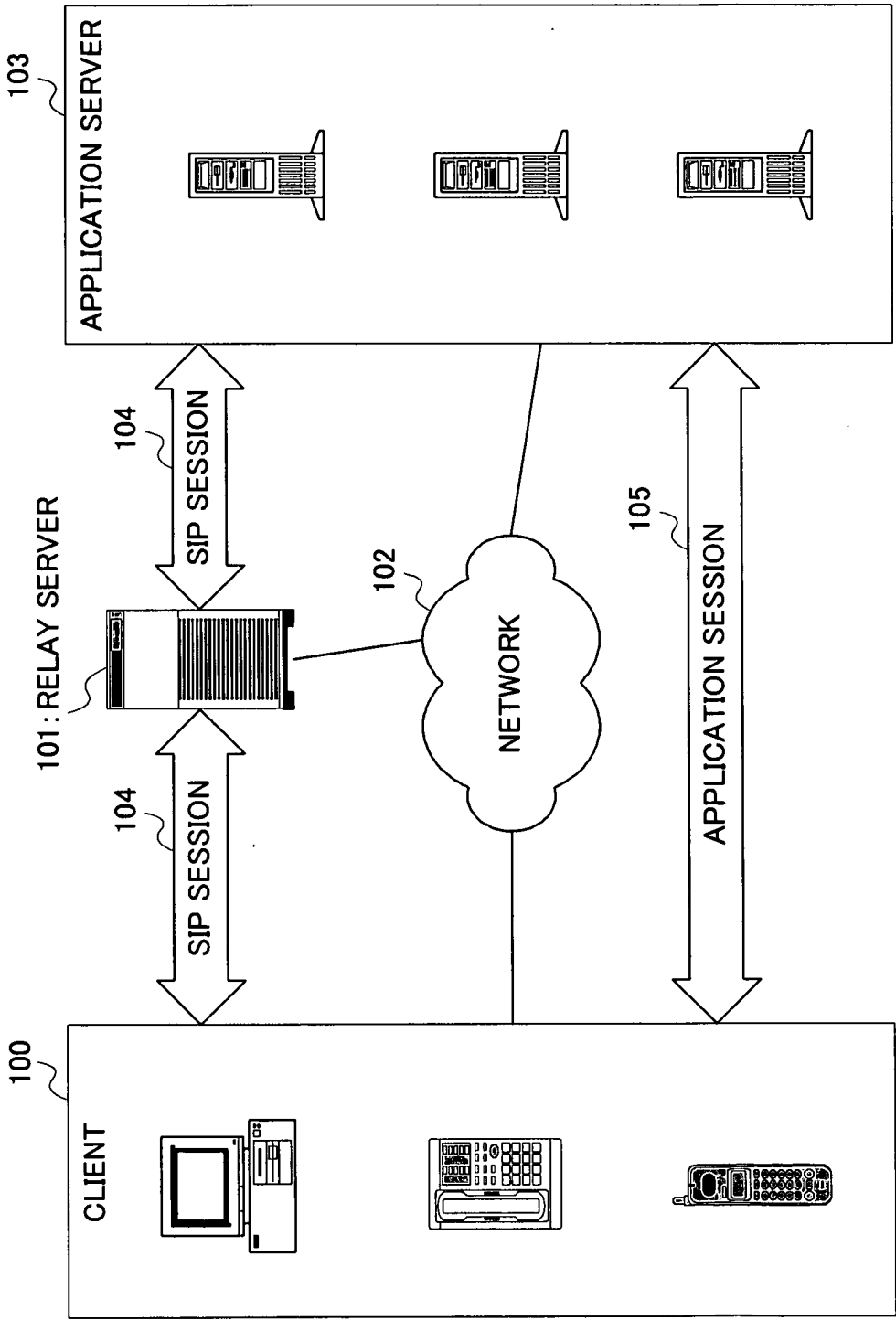


FIG.1

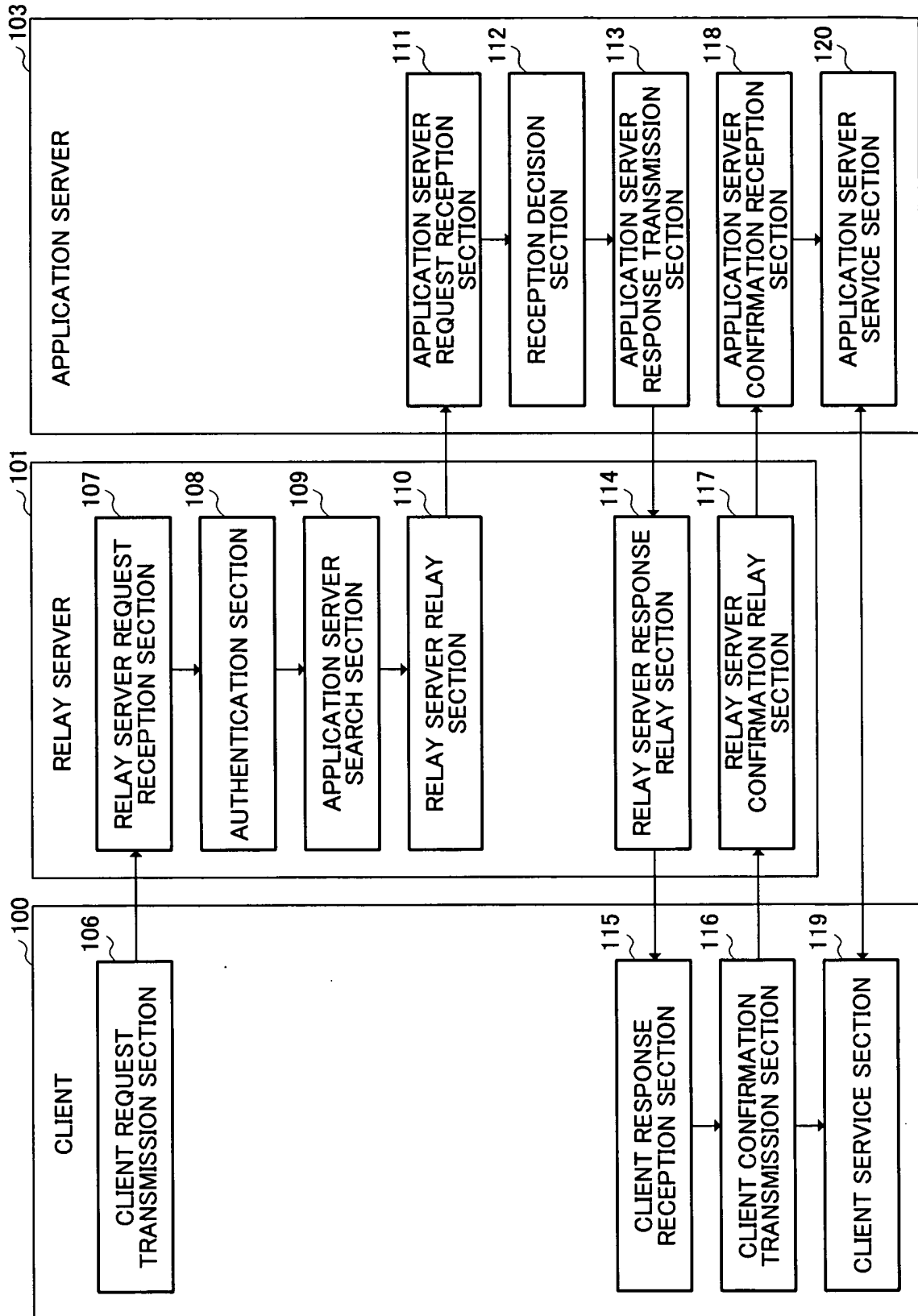


FIG.2

3/10

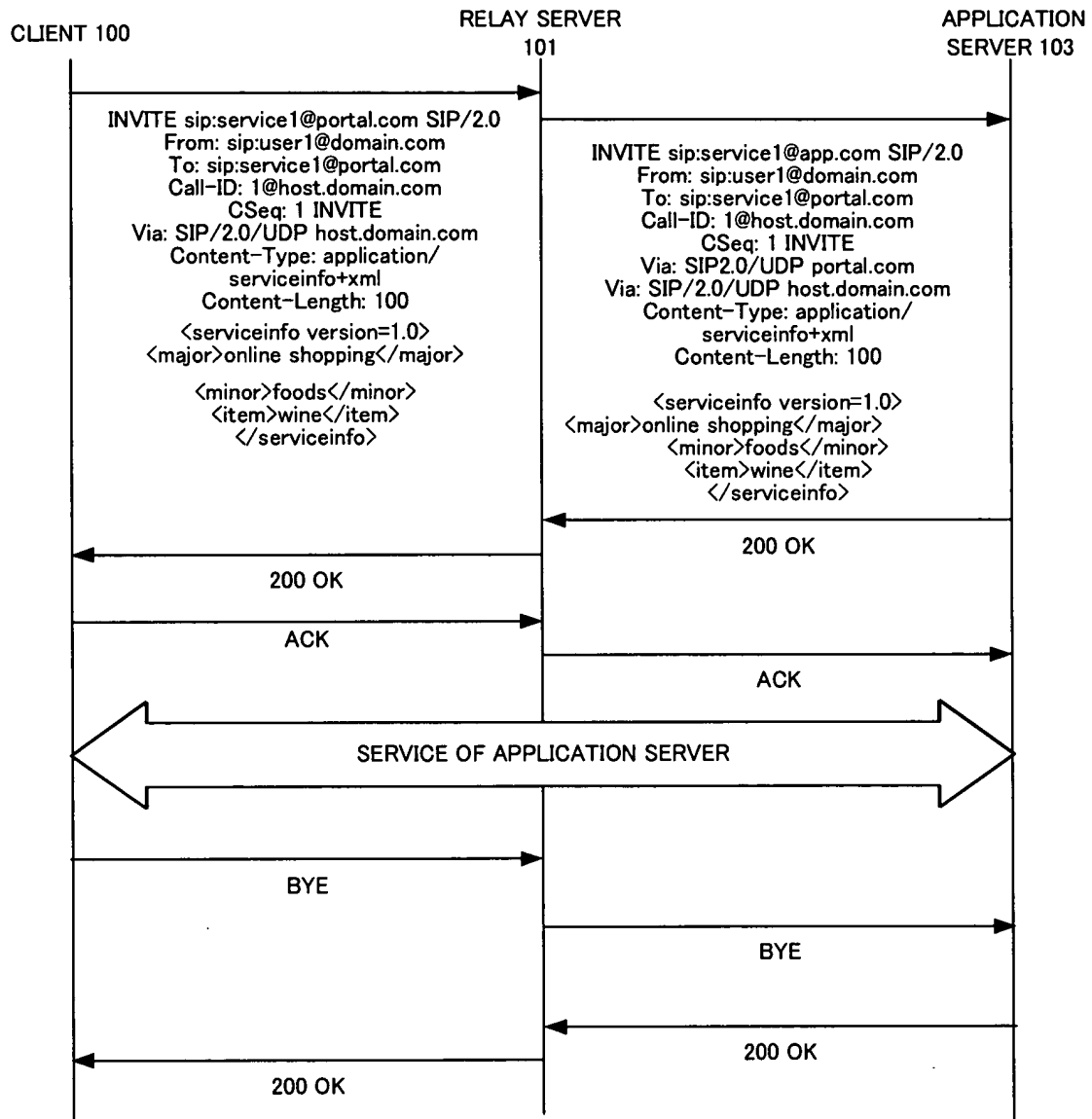


FIG.3



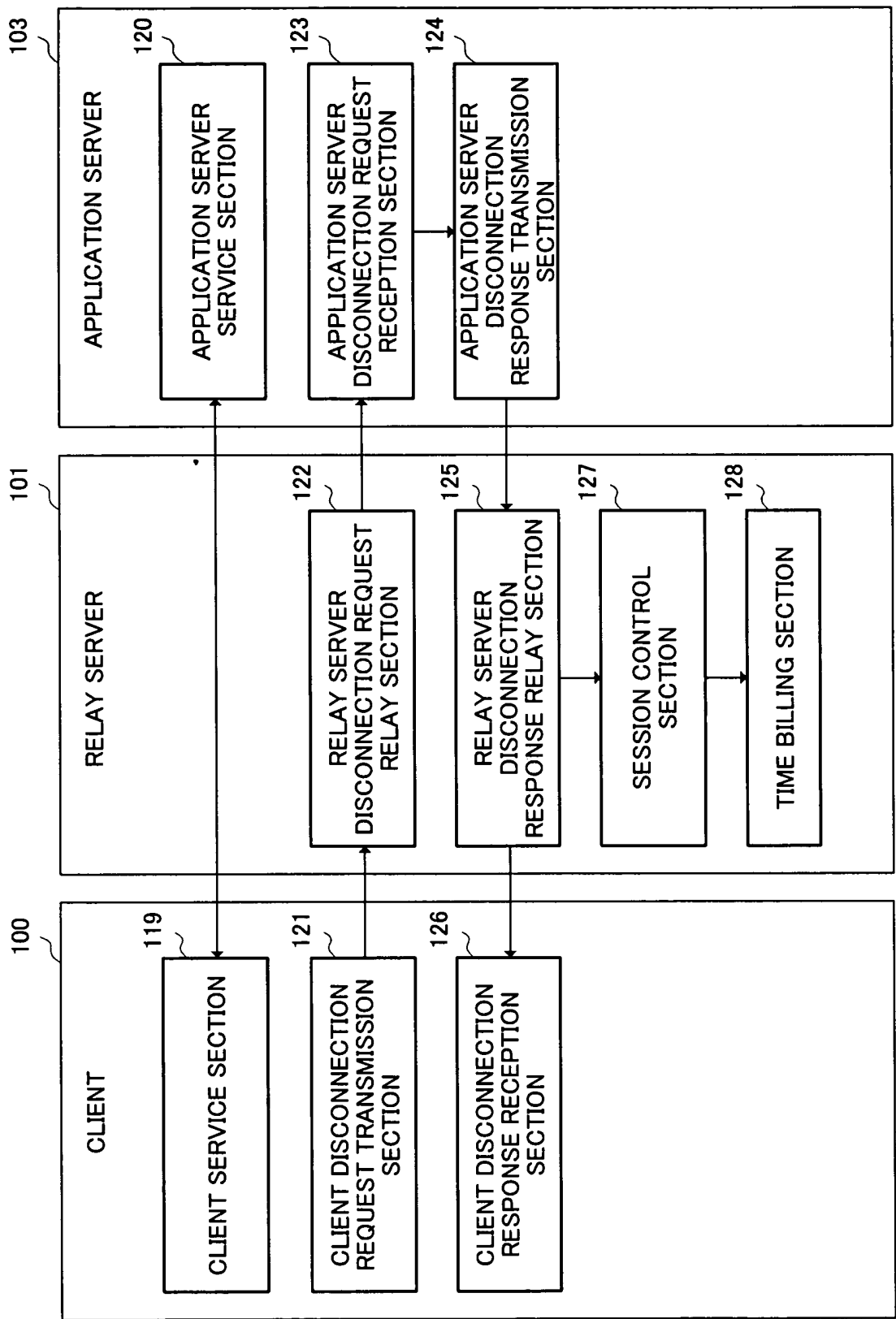


FIG.4

5/10

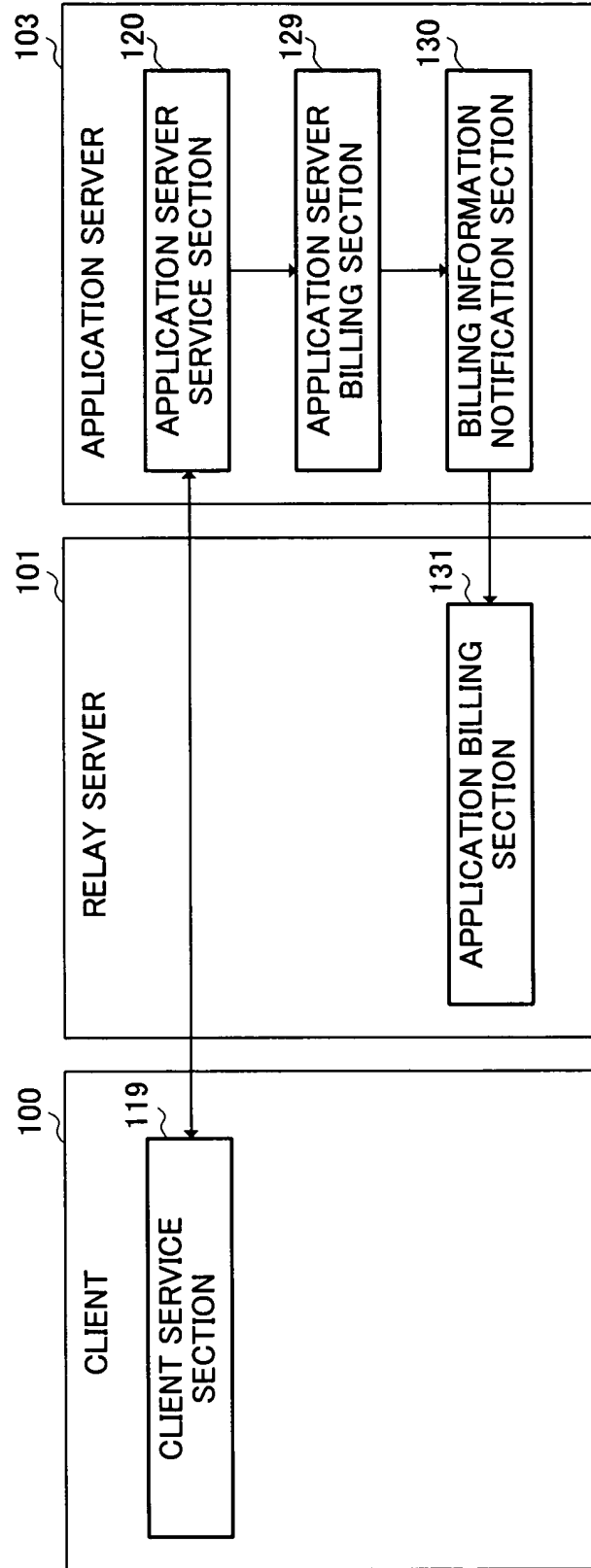


FIG.5

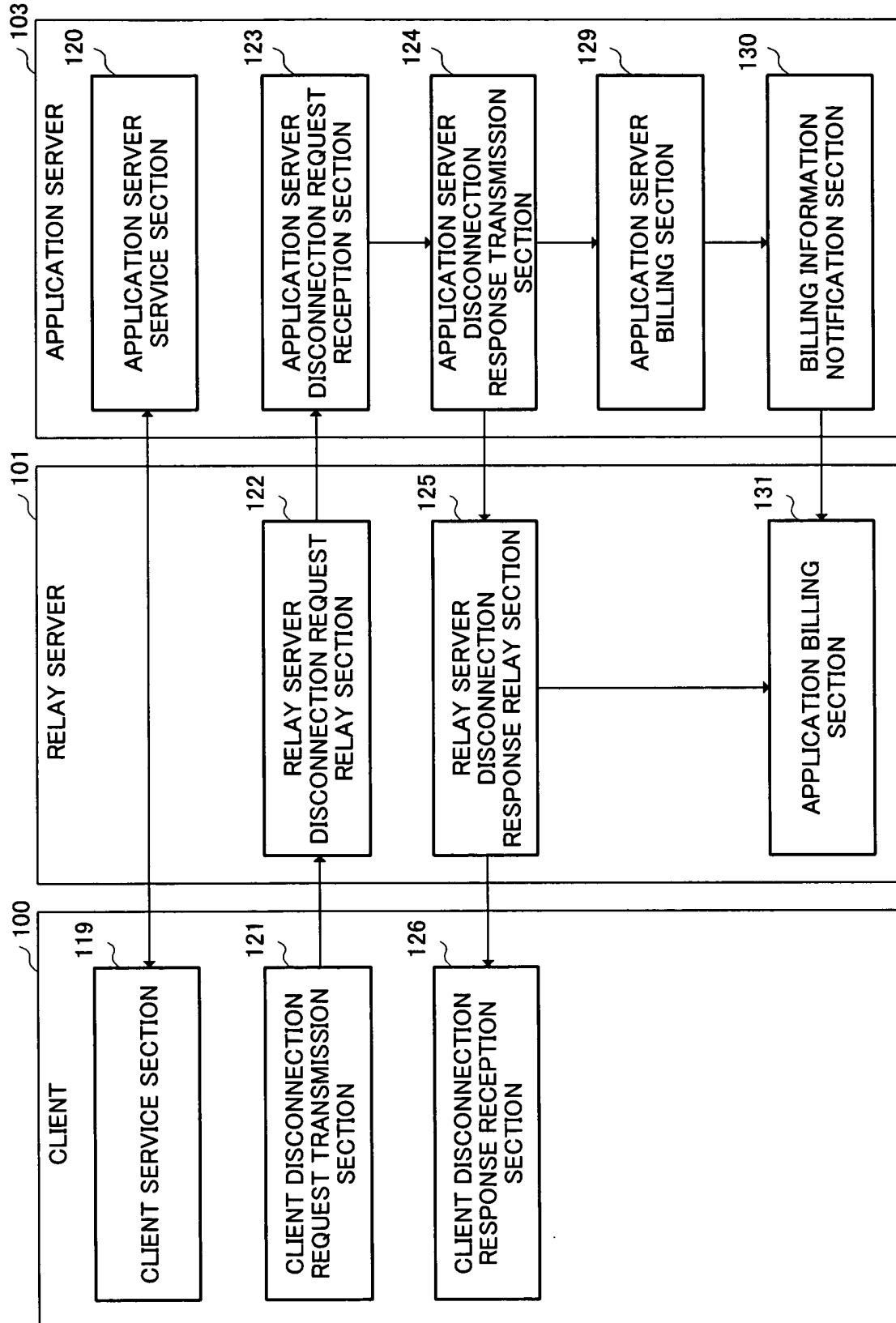


FIG.6

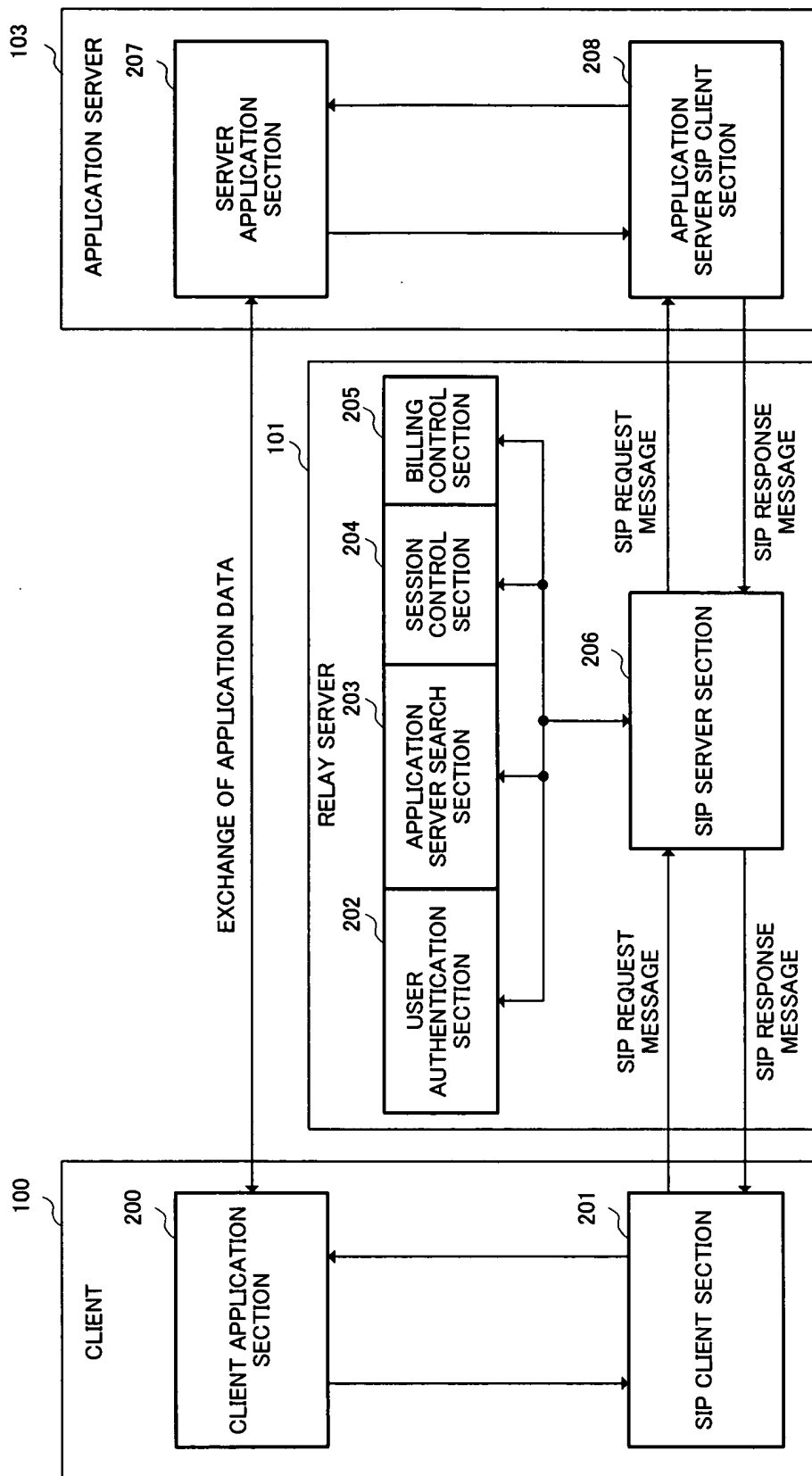


FIG.7

8/10

CLIENT 100

RELAY SERVER 101

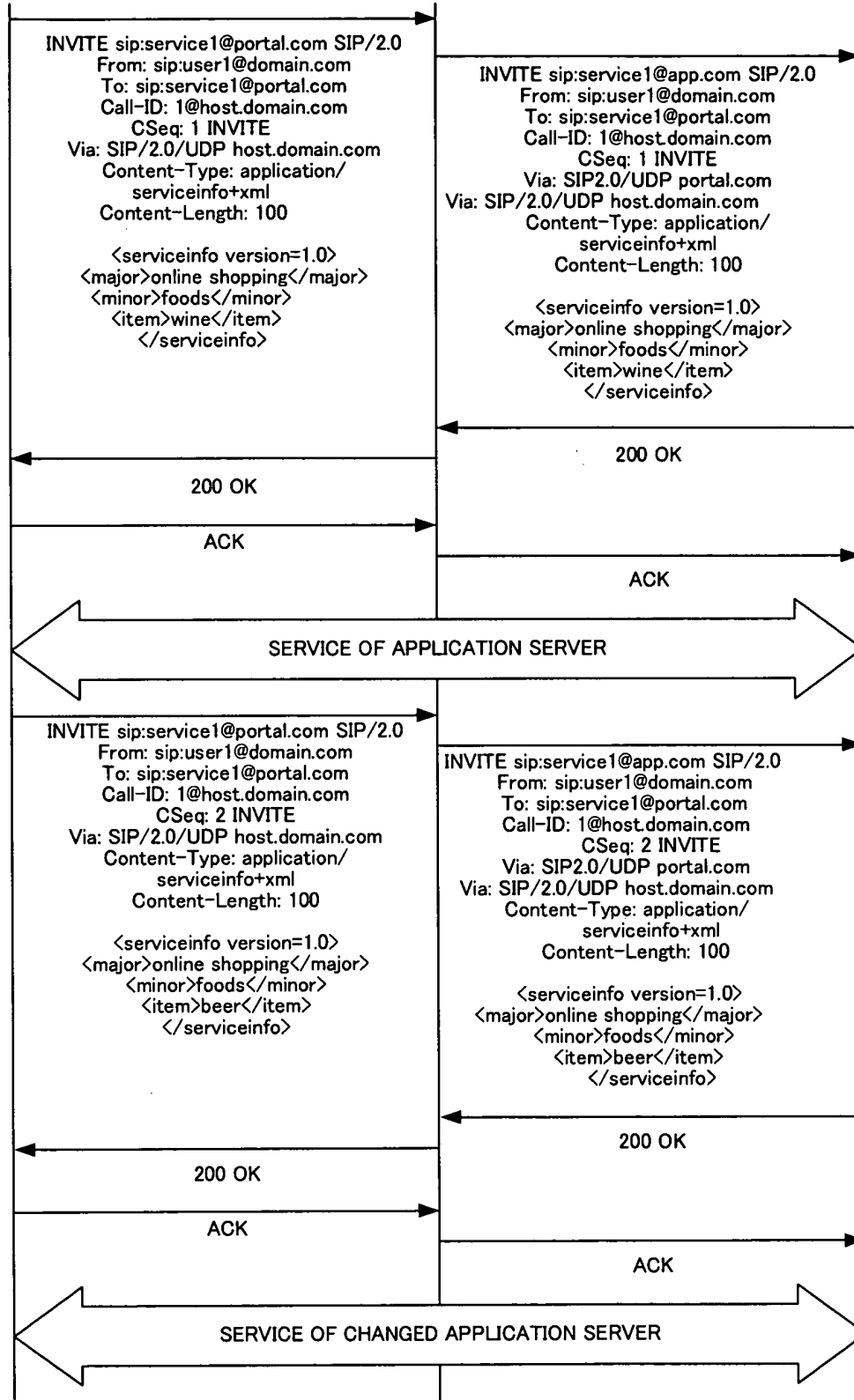
APPLICATION  
SERVER 103

FIG.8

9/10

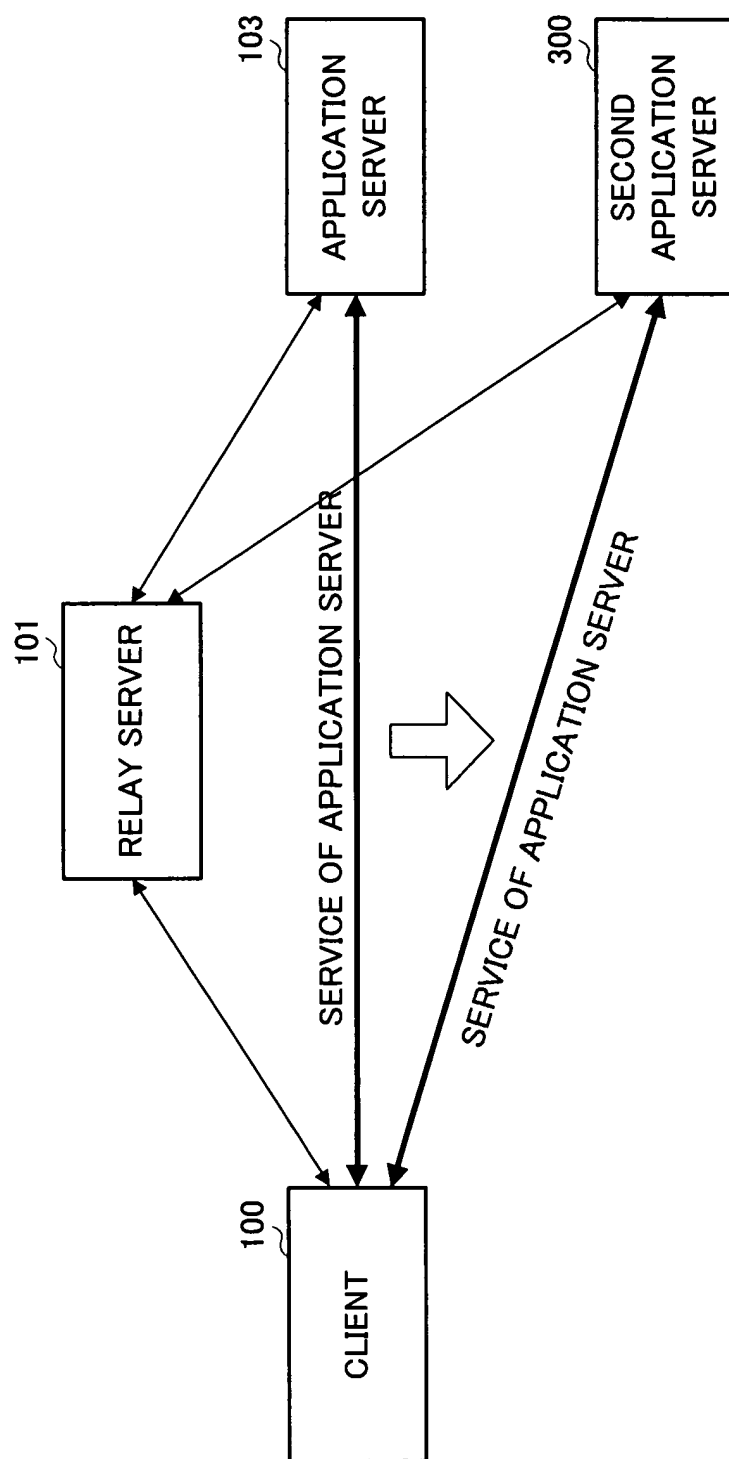


FIG.9

10/10

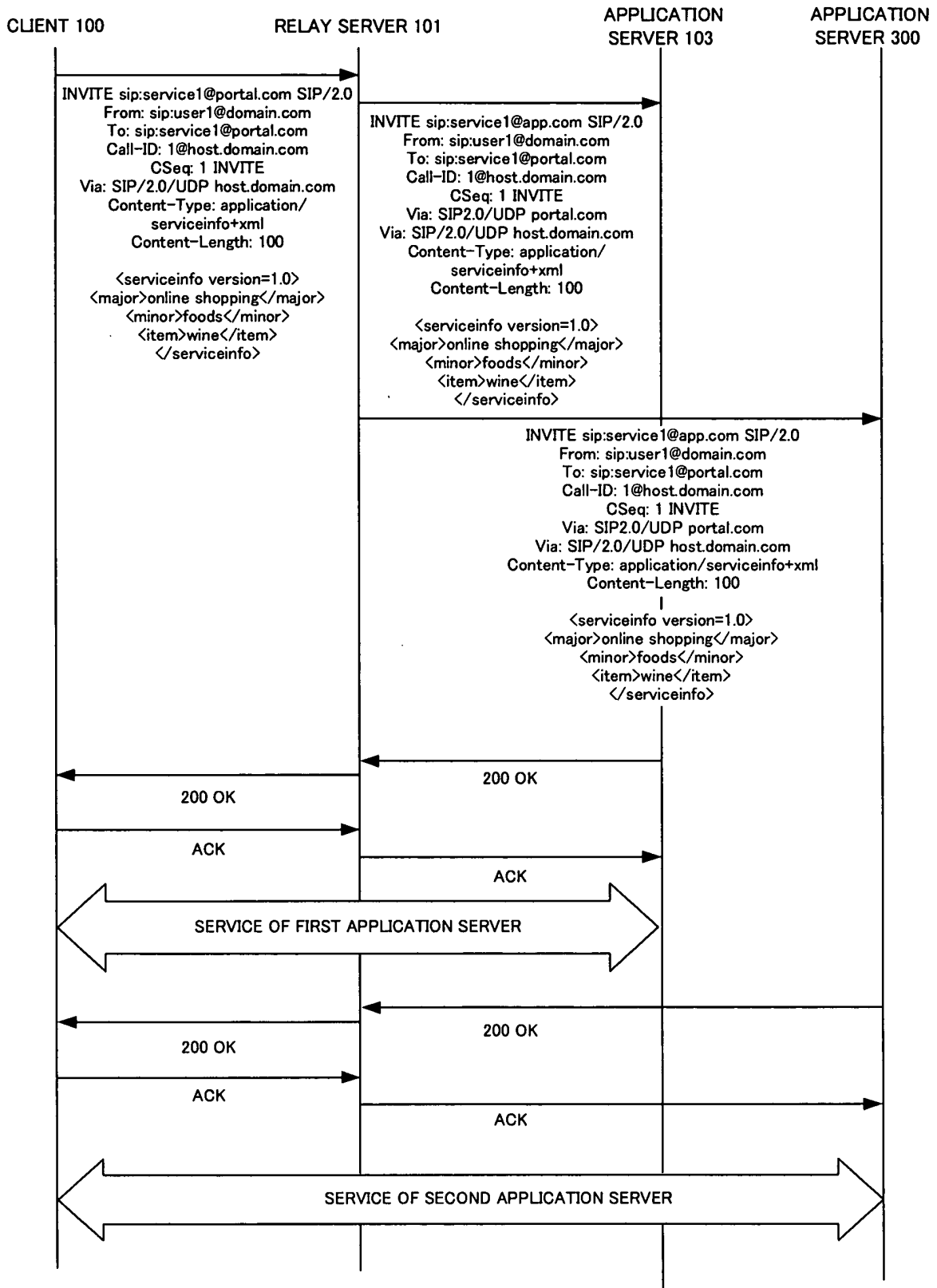


FIG.10